

Product Datasheet

PUM2 Antibody - BSA Free

NB100-387

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB100-387

PUM2 Antibody - BSA Free

Product Information

Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Target Molecular Weight	114 kDa

Product Description

Host	Rabbit
Gene ID	23369
Gene Symbol	PUM2
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 25097251).
Immunogen	The immunogen recognized by this antibody maps to a region between residues 100 and 150 of human Pumilio 2 using the numbering given in entry NP_056132.1 (GeneID 23369).

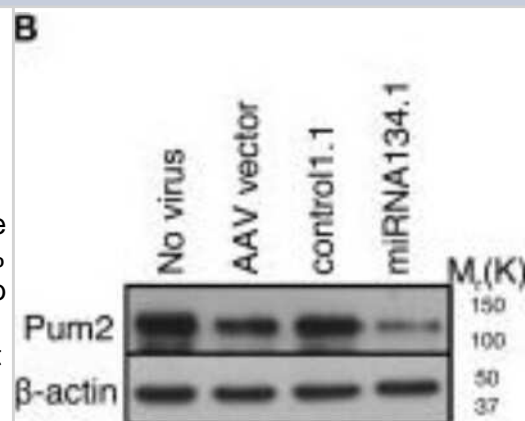
Product Application Details

Applications	Western Blot, Immunoprecipitation
Recommended Dilutions	Western Blot 1:10000-1:20000, Immunoprecipitation 5-10 ug/mg lysate
Application Notes	By Western blot, this antibody recognizes bands at ~135-160 kDa, representing Pum2. A non-specific band at ~40 kDa may be seen in mouse lysates and just above 250 kDa in human lysates.

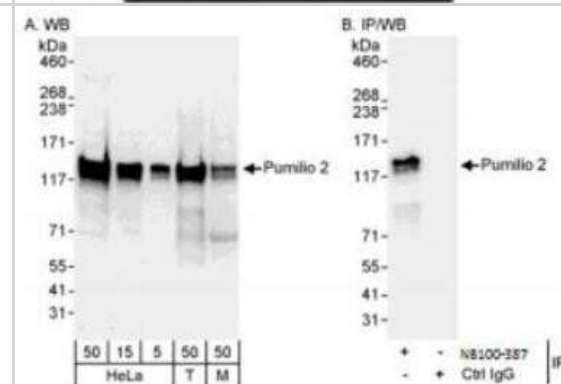


Images

Western Blot: PUM2 Antibody [NB100-387] - Functionality of products expressed from miRNA134. 1, 2 and miRNA99a.1. miR-134 expressed from the miRNA134.1 construct affects the Pum2 protein levels. 10-11 DIV hippocampal neurons were transduced with purified rAAV carrying the indicated plasmids. Eight days later whole cell extracts were prepared and subjected to western blot analysis probing with Pum2 antibody and a beta-actin antibody as loading control. Here we show one out of three representative blots, on average displaying a significant 64% reduction in Pum2 protein levels. Image collected and cropped by CiteAb from the following publication (<https://journal.frontiersin.org/article/10.3389/neuro.04.016.2009/abstract>), licensed under a CC-BY license.



Western Blot: PUM2 Antibody [NB100-387] - Detection of Human and Mouse Pumilio 2 by Western Blot (h&m) and Immunoprecipitation (h). Samples: Whole cell lysate from HeLa (5, 15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded), 293T (T; 50 ug), and mouse NIH3T3 (M; 50 ug) cells. Antibodies: Affinity purified rabbit anti-Pumilio 2 antibody NB100-387 used for WB at 0.2 ug/ml (A) and 1 ug/ml (B) and used for IP at 3 ug/mg lysate.



Publications

Christensen M, Larsen LA, Kauppinen S, Schratt G. Recombinant Adeno-Associated Virus-Mediated microRNA Delivery into the Postnatal Mouse Brain Reveals a Role for miR-134 in Dendritogenesis in Vivo. *Front Neural Circuits* 2010-01-01 [PMID: 20126250]

Valluy J, Bicker S, Aksoy-Aksel A et al. A coding-independent function of an alternative Ube3a transcript during neuronal development *Nat. Neurosci.* 2015-05-01 [PMID: 25867122] (WB, Rat)

Fiore R, Rajman M, Schwale C et al. MiR-134-dependent regulation of Pumilio-2 is necessary for homeostatic synaptic depression. *EMBO J* 2014-08-05 [PMID: 25097251] (IP, WB, Rat)

Friend K, Brook M, Bezirci FB et al. Embryonic poly(A)-binding protein (ePAB) phosphorylation is required for *Xenopus* oocyte maturation. *Biochem J* 2012-07-01 [PMID: 22497250]

Padmanabhan K, Richter JD. Regulated Pumilio-2 binding controls RINGO/Spy mRNA translation and CPEB activation. *Genes Dev* 2006-01-01 [PMID: 16418484]



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NB100-387

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-56823PEP	PUM2 Recombinant Protein Antigen

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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